

ABSTRACT OF THE INVENTION

An ultraviolet area sterilizer (UVAS) is mobile or stationary. The UVAS is positioned in a room, such an operating room or intensive care unit. Motion detectors sense movement, to assure that personnel have evacuated the space to be sterilized. Subsequently, UV-C generators, such mercury bulbs, generate UV-C from multiple locations within the room or other enclosed space. Multiple UV-C sensors scan the room, and determine the area reflecting the lowest level of UV-C back to the sensors. The device calculates the time required to obtain a bactericidal dose of UV-C reflected back to the sensors. Once an effective bactericidal dose has been reflected to all the sensors, the unit notifies the operator and shuts down.